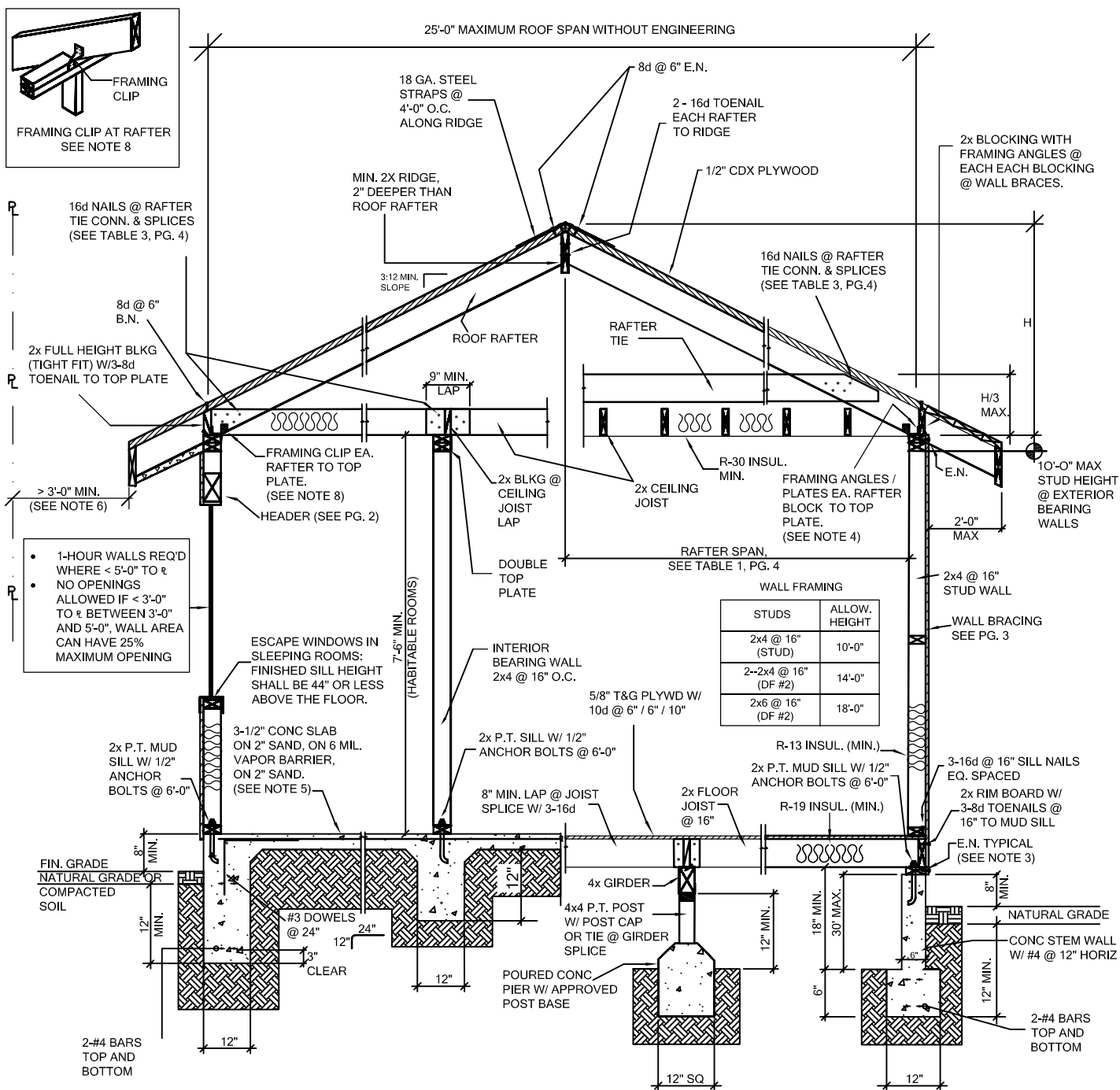


CITY STANDARD PLAN  
TYPE V CONVENTIONAL WOOD-FRAME CONSTRUCTION SHEET

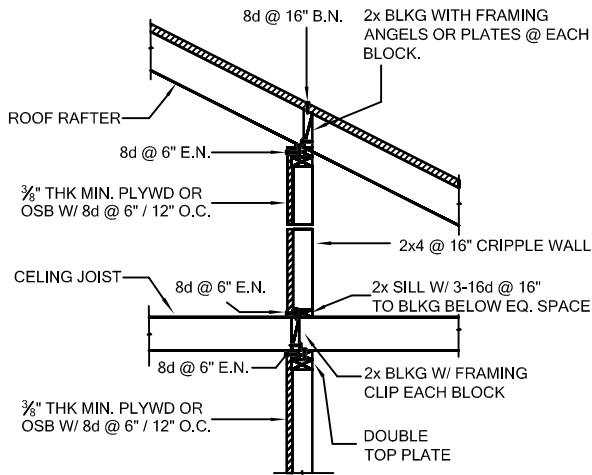
PAGE 1 OF 4  
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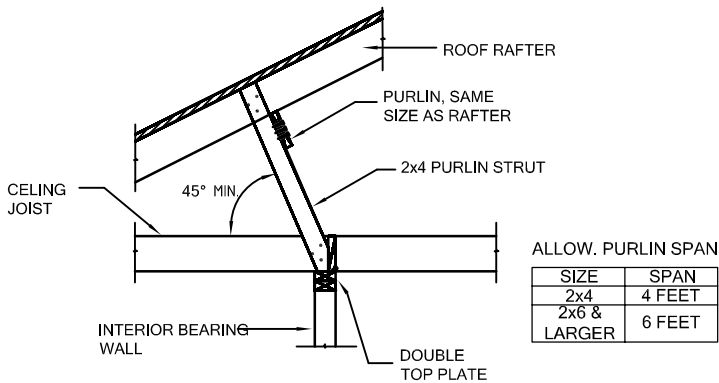
## BUILDING SECTION

NOTES:

1. MINIMUM CONCRETE STRENGTH = 2500 psi
2. ANCHOR BOLTS SHALL BE EMBEDDED AT LEAST 7" INTO CONCRETE. FOR TWO-POUR FOUNDATIONS, THE REQUIRED EMBEDMENT SHALL BE PROVIDED IN THE FIRST POUR. ANCHOR BOLTS SHALL BE LOCATED NOT MORE THAN 12", OR LESS THAN 4-1/2" FROM SILL PLATE ENDS, CORNERS AND SPLICES. ANCHOR BOLTS SHALL BE INSTALLED WITH 3"x3"x0.229" SQUARE PLATE WASHERS.
3. FASTENERS FOR PRESERVATIVE TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.
4. FRAMING ANGLES AND PLATES SHALL BE REQUIRED TO ATTACH EACH RAFTER BLOCK TO THE TOP PLATE. FRAMING ANGLES OR PLATES SHALL BE ICC LISTED, MINIMUM OF 20 GAUGE ANGLES AND PLATES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
5. SLAB ON GRADE SHALL BE REINFORCED WITH 6x6 - W1.4xW1.4 WIRE MESH OR #4 BARS @ 24" EACH WAY. REINFORCING SHALL BE LOCATED AT SLAB MID-HEIGHT.
6. EAVE/OVERHANG SETBACKS MAY BE REDUCED TO 2'-0" IF 1-HOUR EAVE CONSTRUCTION IS PROVIDED.
7. P.T. INDICATES "PRESERVATIVE-TREATED WOOD.
8. FRAMING CLIPS SHALL BE 18 GAUGE STEEL WITH 4-8d NAILS PER LEG (8-8d ANILS PER CLIP). FRAMING CLIPS SHALL BE ICC APPROVED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

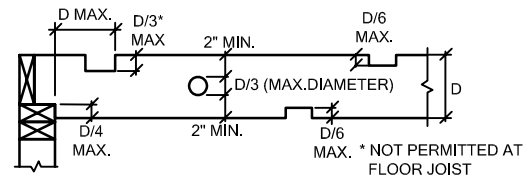
CITY STANDARD PLAN  
TYPE V CONVENTIONAL WOOD-FRAME CONSTRUCTION SHEET

INTERIOR BRACED WALL

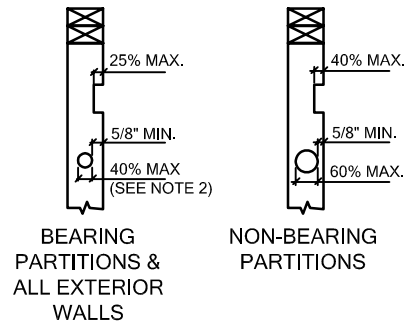


CBC 2308.10.5

PURLIN BRACING



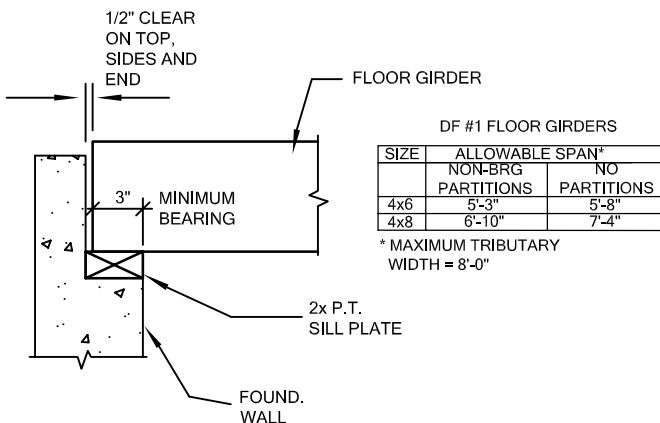
RAFTER, CEILING JOIST AND FLOOR JOIST

CBC 2308.8.2  
CBC 2308.10.4.2CBC 2308.9.10  
CBC 2308.9.11

## NOTES:

1. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION AS A CUT OR NOTCH.
2. BORED HOLES IN BEARING STUDS MAY BE INCREASED TO 60% IF STUDS ARE DOUBLED; NO MORE THAN TWO SUCCESSIVE DOUBLE STUDS MAY BE BORED.

NOTCHING AND HOLES

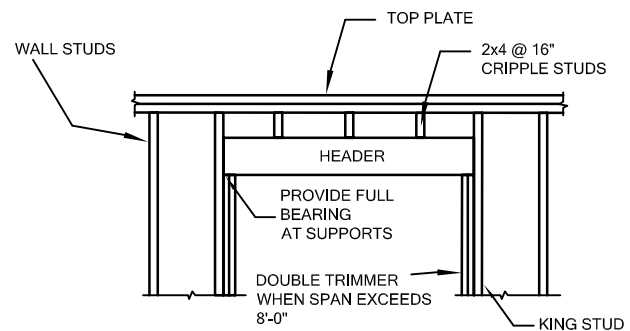


## NOTES:

1. FLOOR GIRDERS SHALL BE SPACED AT 8'-0" O.C. MAX.

CBC 2304.11.2.5  
CBC 2308.7

FLOOR GIRDERS



## DF #1 HEADER, ALLOWABLE SPANS\*

SPAN	SIZE
UP TO 4'-0"	4x4
4'-1" TO 6'-0"	4x6
6'-1" TO 8'-0"	4x8
8'-1" TO 10'-0"	4x10
10'-1" TO 12'-0"	4x12

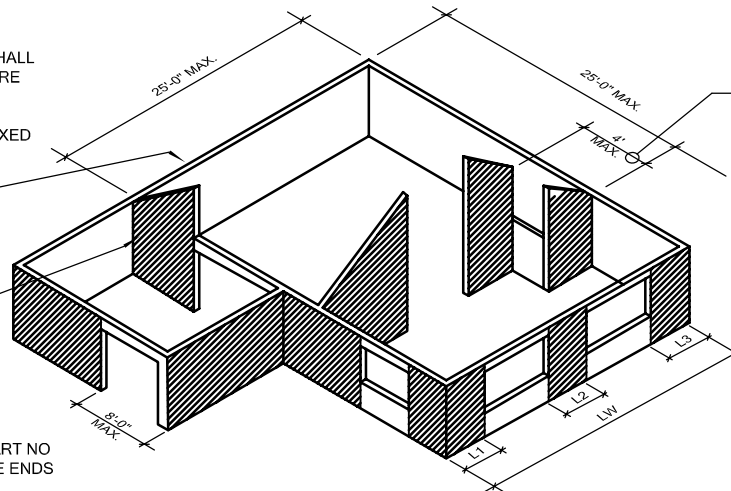
\* MAXIMUM TRIBUTARY  
WIDTH = 12'-6"\* ALSO SEE HEADER  
SPAN TABLES 2308.9.5  
AND 2308.9.6 FOR  
ADDITIONAL  
INFORMATION

CBC 2304.9.5

HEADER / LINTEL

CITY STANDARD PLAN  
TYPE V CONVENTIONAL WOOD-FRAME CONSTRUCTION SHEET

NOTE: FOR WALL ATTACHMENTS, SEE TABLE 2308.12.4

BRACED WALLS OF STUCCO SHALL  
BE FULL LENGTH. OPENINGS ARE  
NOT PERMITTED.WALL TYPES SHALL NOT BE MIXED  
ALONG A BRACED WALL LINE.INTERIOR BRACED  
WALLS SHALL EXTEND  
TO THE ROOF.BRACED WALLS SHALL START NO  
MORE THAN 8'-0" FROM THE ENDS  
OF A BRACED WALL LINE.BRACED WALL LINES SHALL  
BE PROVIDED AT 25'-0" MAX.  
IN BOTH DIRECTIONS.4'-0" MAXIMUM  
OFFSET ALONG  
BRACED WALL LINE.MINIMUM LENGTH OF WOOD  
STRUCTURAL PANEL WALLS:  
12'-0" FOR EVERY 25'-0"

$$\frac{L1 + L2 + L3}{LW} \geq 0.48$$

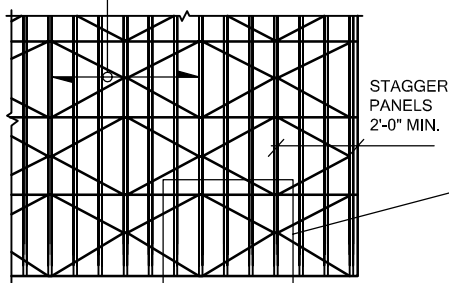
$$L1 + L2 + L3 \geq 12'-0"$$

$$L1, L2, L3 \geq 4'$$

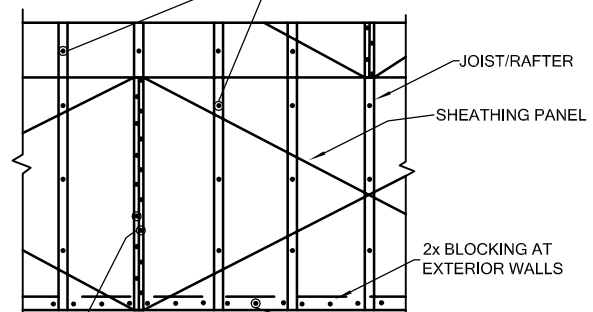
NOTE:  
HOLDDOWNS ARE REQ'D  
WHERE LESS THAN 6'-0"

## BASIC COMPONENTS OF THE LATERAL BRACING SYSTEM

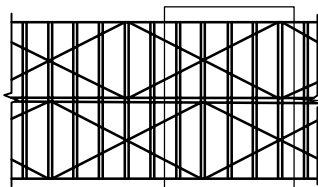
~ PROPOSED BUILDING SHALL BE OF RECTANGULAR OR L-SHAPED IN PLAN ~

PANELS SPAN PERPENDICULAR TO  
ROOF FRAMING

PARTIAL ROOF/FLOOR PLAN

FIELD NAILING (F.N.)  
AT JOISTS/RAFTERSEDGE NAILING (E.N.) AT  
JOISTS/RAFTERS WHERE  
PANELS ABUT.

ROOF/FLOOR SHEATHING

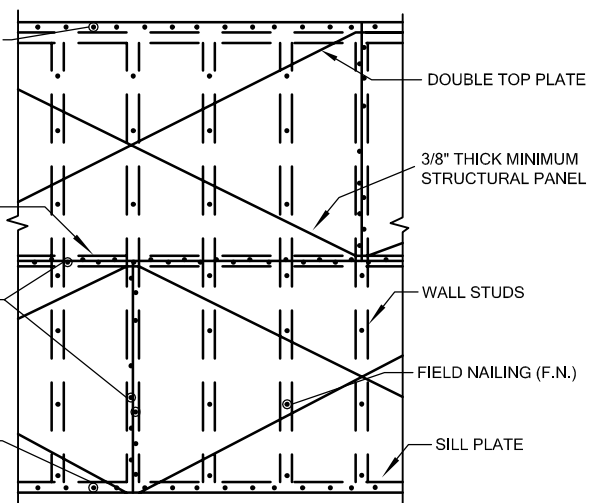


PARTIAL WALL ELEVATION

EDGE NAILING (E.N.)

2x BLOCKING AT  
PANEL EDGESEDGE NAILING (E.N.)  
AT ALL PANEL EDGES

EDGE NAILING (E.N.)



WALL SHEATHING

## PANEL NAILING SCHEDULE

LOCATION	B.N. / E.N. / F.N.
ROOFS:	8d @ 6" / 6" / 12"
FLOORS:	10d @ 6" / 6" / 10"
WALLS:	8d @ -- / 6" / 12"

## NOTES:

1. NAILS SHALL BE PLACED  $\frac{3}{8}$ " FROM PANEL EDGES.
2. PROVIDE  $\frac{1}{8}$ " GAP BETWEEN SHEATHING PANELS.
3. MINIMUM DIMENSION OF SHEATHING PANEL IN ANY DIRECTION SHALL BE 2'-0".
4. WALL SHEATHING PANELS MAY BE INSTALLED WITH THE LONG DIRECTION ORIENTED VERTICALLY.
5. FOR WALL ATTACHMENTS, SEE TABLE 2308.12.4

CITY STANDARD PLAN  
TYPE V CONVENTIONAL WOOD-FRAME CONSTRUCTION SHEET

## GENERAL NOTES

1. SEE FASTENING SCHEDULE (CBC 2304.9.1) FOR NAILING NOT SHOWN.
2. BEARING WALLS AND BRACED WALLS REQUIRE CONTINUOUS FOOTINGS.
3. "DF" ON THESE SHEETS REFERS TO DOUGLAS FIR-LARCH. SAWN LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION AGENCY PER CBC 2302.1.1.
4. "DL" AND "LL" ON THESE SHEETS INDICATES "DEAD LOAD" AND "LIVE LOAD," RESPECTIVELY.
5. WOOD MEMBERS SHALL BE OF SUFFICIENT SIZE TO PREVENT SPLITTING DUE TO NAILING. SPLIT MEMBERS SHALL BE REMOVED AND REPLACED.
6. WHEN FRAMED WITH ENGINEERED WOOD TRUSSES, ROOF DIAPHRAGMS SHALL BE CONNECTED TO INTERIOR BRACED WALLS BY MEANS OF DRAG TRUSSES OR TRUSS BLOCKING.

TABLE 1 -- DF#2 RAFTERS, ALLOWABLE SPANS\*

RAFTER SPACING	DL = 10 PSF, LL = 20 PSF				
	2x4	2x6	2x8	2x10	2x12
12"	9'-10"	15'-6"	20'-5"	25'-8"	--
16"	8'-11"	14'-1"	18'-2"	22'-3"	25'-9"
24"	7'-10"	11'-9"	14'-10"	18'-2"	21'-0"

\* DATA FROM CBC TABLE 2308.10.3 (2).

TABLE 2 -- DF#2 CEILING JOISTS, ALLOWABLE SPANS\*

JOIST SPACING	ATTICS WITHOUT STORAGE, LL = 10 PSF				ATTICS WITH LIMITED STORAGE, LL = 20 PSF			
	2x4	2x6	2x8	2x10	2x4	2x6	2x8	2x10
12"	12'-5"	19'-6"	25'-8"	--	10'-0"	15'-9"	20'-1"	24'-6"
16"	11'-3"	17'-8"	23'-0"	--	8'-9"	12'-10"	16'-3"	19'-10"
24"	9'-10"	14'-10"	18'-9"	22'-11"	7'-2"	10'-6"	13'-3"	16'-3"

\* DATA FROM CBC TABLE 2308.10.2. ATTICS WITH STORAGE ARE THOSE WHERE THE CLEAR HEIGHT BETWEEN THE CEILING JOIST AND RAFTER IS 42" OR GREATER. ATTICS SHALL BE INHABITABLE. CEILING DEAD LOAD SHALL NOT EXCEED 5 PSF.

TABLE 3 -- RAFTER TIE CONNECTIONS, # 16d COMMON NAILS.\*

TIE SPACING	ROOF PITCH																	
	3:12			4:12			5:12			7:12			9:12			12:12		
	SPAN			SPAN			SPAN			SPAN			SPAN			SPAN		
	12'	20'	25'	12'	20'	25'	12'	20'	25'	12'	20'	25'	12'	20'	25'	12'	20'	25'
12"	4	6	8	3	4	5	3	3	4	3	3	3	3	3	3	3	3	3
16"	5	7	10	3	5	7	3	4	5	3	4	3	3	3	3	3	3	3
24"	7	11	15	4	7	10	4	6	8	3	4	6	3	3	5	3	3	3
32"	10	14	19	6	9	13	5	8	10	4	6	8	3	4	6	3	3	4
48"	14	21	29	8	14	19	7	11	15	5	8	11	4	6	9	3	4	6

\* CBC TABLE 2308.10.4.1 VALUES ADJUSTED FOR DF#2 FRAMING. THE NUMBER OF NAILS SPECIFIED IN THE TABLE SHALL BE PROVIDED AT EACH CONNECTION. WHEN FULL-HEIGHT INTERIOR BEARING WALLS OR PURLIN BRACING ARE PROVIDED, RAFTER TIE NAILING MAY BE REDUCED PROPORTIONAL TO THE REDUCTION IN RAFTER SPAN; NO LESS THAN 3 NAILS SHALL BE PROVIDED AT EACH CONNECTION. NO SNOW LOAD.

TABLE 4 -- DF#2 FLOOR JOIST, ALLOWABLE SPANS\*

JOIST SPACING	DL = 10 PSF, LL = 40 PSF			
	2x6	2x8	2x10	2x12
12"	10'-9"	14'-2"	17'-9"	20'-7"
16'	9'-9"	12'-7"	15'-5"	17'-10"
24"	8'-1"	10'-3"	12'-7"	14'-7"

\* DATA FROM CBC TABLE 2308.8 (2)

TABLE 5 -- PLYWOOD OR OSB FLOOR AND ROOF SHEATHING, ALLOWABLE SPANS\*

SHEATHING GRADES		ROOF				FLOOR
SPAN RATING FLOOR/ROOF	SPAN THICKNESS	MAX. SPAN (in.)		LOADS (psf)		PANEL EDGES WITH T & G JOINTS OR BLOCKING MAX. SPAN (in.)
		WITH EDGE SUPPORTS	WITHOUT EDGE SUPPORTS	TOTAL LOAD	LIVE LOAD	
24/0	3/8, 7/16, 1/2	24	20	40	30	0
24/16	7/16, 1/2	24	24	50	40	16
32/16	15/32, 1/2, 5/8	32	28	40	30	16
40/20	19/32, 5/8, 3/4, 7/8	40	32	40	30	20
48/24	23/32, 3/4, 7/8	48	36	45	35	24

\* DATA FROM CBC TABLE 2304.7 (3). SHEATHING PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS AND PERPENDICULAR TO SUPPORTS. FOR 1/2" SHEATHING, MAXIMUM SPAN SHALL BE 24". EDGE SUPPORT MAY BE PROVIDED BY TONGUE AND GROOVE EDGES, 2x BLOCKING, OR PANEL EDGE CLIPS.